	Application No.	Applicant(s)	
	1		
Notice of Allowability	10/669,557 Examiner	IMAI, KIMIMASA Art Unit	
notice of Anomabiney	Examiner	Art Unit	
	Tuan T. Nguyen	2824	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in i) or other appropriate communication is second in RIGHTS. This application is second in the communication in the communication is second in the communication in the commu	n this application. If not included unication will be mailed in due course	
1. This communication is responsive to			
2. ☑ The allowed claim(s) is/are <u>1-18</u> .		•	
3. The drawings filed on 25 September 2003 are accepted by	by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		or (f).	
2. Certified copies of the priority documents hav	•	n No.	
3. Copies of the certified copies of the priority do	• •		om the
International Bureau (PCT Rule 17.2(a)).		and manage approaches no	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submit to the submit the submit to the	MENT of this application. nitted. Note the attached EXA	AMINER'S AMENDMENT or NOTICE	
INFORMAL PATENT APPLICATION (PTO-152) which give 6. CORRECTED DRAWINGS (as "replacement sheets") mu		declaration is deficient.	
(a) ☐ including changes required by the Notice of Draftsper		(PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date	-	(1 10-3-0) attached	
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	_	in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note th DLOGICAL MATERIAL.	е
AMachana (Ma)			
Attachment(s) 1. ⊠ Notice of References Cited (PTO-892)	5. ☐ Notice of Inf	formal Patent Application (PTO-152)	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview St	ummary (PTO-413), Mail Date	
 Information Disclosure Statements (PTO-1449 or PTO/SB/ Paper No./Mail Date 9/25/03 	08), 7. 🔀 Examiner's	Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	_	Statement of Reasons for Allowance)
of Biological Material	9. ⊠ Other <u>Attac</u>	hment A: Search History.	
	and	3\2\\OS RICHARD ELMS SUPERVISORY PATENT EXAMINE	ER
U.S. Patent and Trademark Office		TECHNOLOGY CENTER 2800	_ _

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 9/25/03 was filed after the mailing date of the present application. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Examiner's Amendment

3. Claim 11, line 6, change "a fuse element" to – the fuse element --

Allowable Subject Matter

- 4. Claims 1-18 are allowed.
- 5. The following is an examiner's statement of reasons for allowance:

The prior art of record fail to disclose a read/program potential generating circuit comprising, in combination with other cited limitations, a first potential generating circuit that generates a program potential necessary for programming for a fuse element; and a second potential generating circuit that generates a read potential necessary for checking a state of the fuse element, wherein a value of the read potential is lower than a value of the program potential as recited in claims 1-14.

The prior art of record further fail to disclose a read/program method comprising, in combination with other cited limitations, generating a read potential in sync with Power-on;

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applying the read potential to a fuse element, thereby checking a state of the fuse element;

generating a program potential higher than the read potential, based on a command from a

CPU; and applying the program potential to the fuse element, thereby executing programming

for the fuse element as recited as recited in claims 15-18.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a. Kawahara et al. (US 6,496,418) disclose a semiconductor IC and data processing sytem.
 - b. Tanizaki et al. (US 6,400,632) disclose a semiconductor device including a fuse circuit in which the electric current is cut off after blowing so as to prevent voltage fall.
 - c. Blodgett (US 6,327,178) disclose a programmable circuit and its method of operation in which a transistor is used as a programmable element.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T. Nguyen whose telephone number is (571) 272-1880. The examiner can normally be reached on Monday - Friday, 7:00 AM - 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Elms can be reached on (571) 272-1869. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Man Ruan

March 21, 2005

Tuan T. Nguyen Patent Examiner Art Unit 2824